

Abstract

**COMPOSITIONS AND METHODS FOR TREATING OR PREVENTING HEARING
IMPAIRMENT**

Ototoxic side-effects have either limited the application of an important group of
5 antibiotics, aminoglycoside antibiotics, or have added further burden to those who have to resort
to platinum-containing antineoplastic agents to treat life-threatening tumors. The present
invention discloses pharmaceutical compositions that prevent or treat the ototoxic side-effects of
aminoglycoside antibiotics and platinum-containing antineoplastic agents. The otoprotective
compositions disclosed herein can also be used to treat noise induced hearing loss.

10

15